

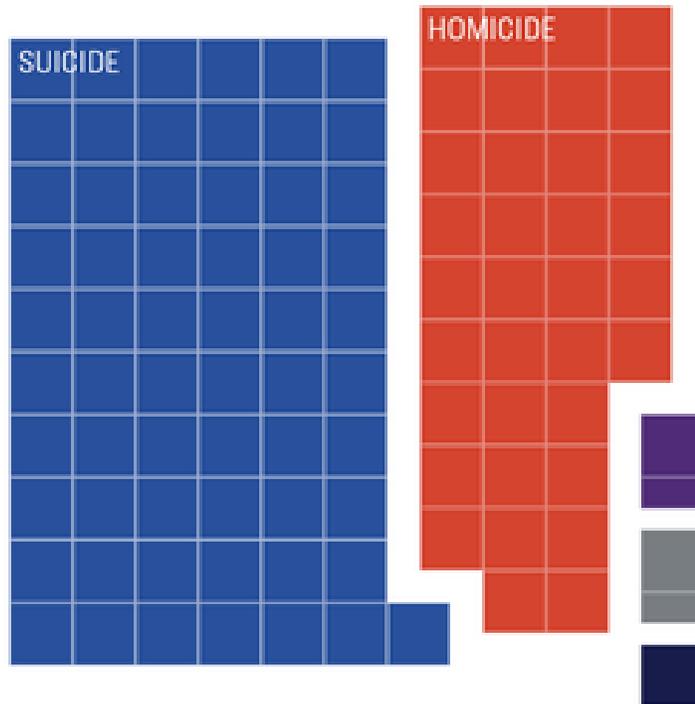


Firearm Deaths and Injuries among Youth in North Carolina

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Injury and Violence Prevention Branch

Firearm-related Violence in US & NC

EACH YEAR
36,383 AMERICANS
DIE FROM GUN VIOLENCE



- GUN SUICIDES: 22,274 (61%)
- GUN HOMICIDES: 12,830 (35%)
- LAW ENFORCEMENT SHOOTINGS: 496 (1.4%)
- UNINTENTIONAL SHOOTINGS: 487 (1.3%)
- UNDETERMINED: 295 (0.8%)

NC Firearm-related deaths, 2018*

NC all ages= 1,345

NC ages 0-17= 61

North Carolina
Injury & Violence
PREVENTION Branch

* 2018 data are provisional
Analysis by Injury Epidemiology and Surveillance Unit (as of Dec 2019)

North Carolina Violent Death Reporting System (NC-VDRS)

Data and Surveillance

- Since 2004, abstract approximately 2,000 violent deaths per year (homicides, suicides, firearm deaths)
- Data Sources and Collaborators
 - Death certificate data- State Center for Health Statistics
 - NC Office of the Chief Medical Examiner (OCME)
 - NC-IBRS (SBI)
 - Decentralized law enforcement
 - More than 650 law enforcement agencies in NC
 - ~250 in a given year experience violent death
- Data can differ slightly due to case definition, data closeout dates, and other factors

North Carolina Violent Death Reporting System



600+ data fields



Injury characteristics



Demographics



Circumstances



Mental Health Diagnoses

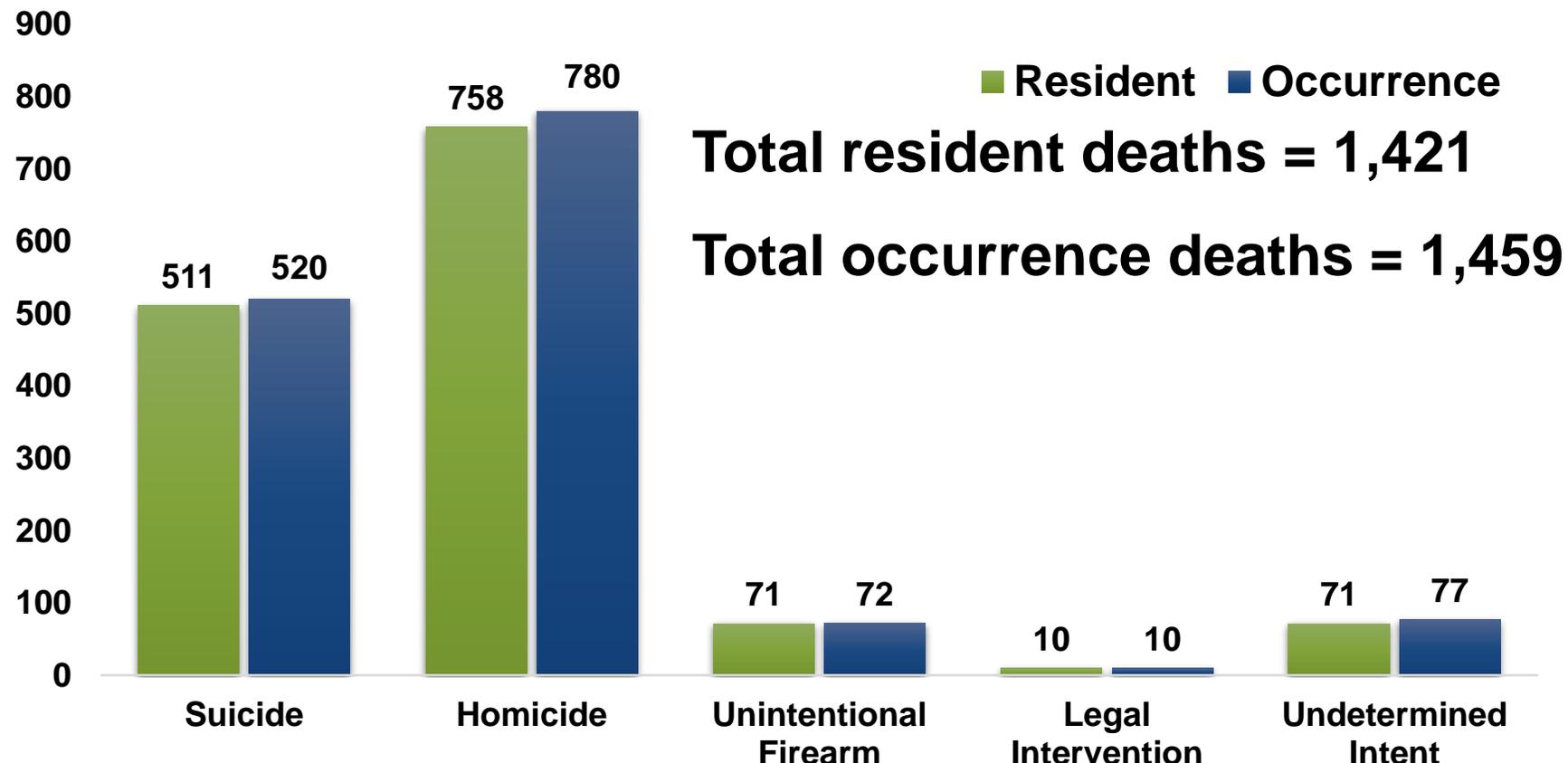


Toxicology



Deaths by Manner/Intent: Resident and Occurrence Deaths

North Carolina Violent Death Reporting System, age 0-17, 2004-2018*



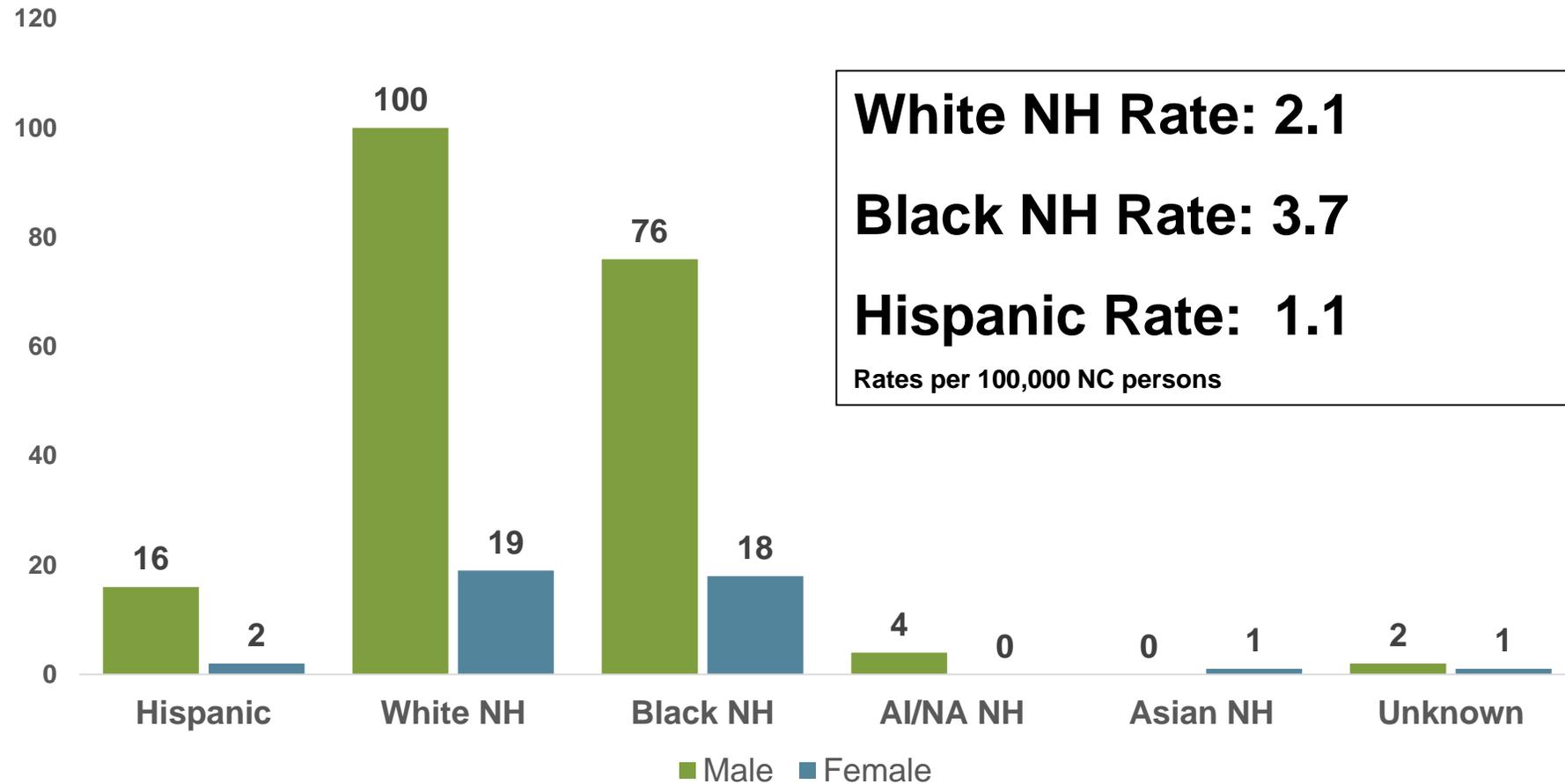
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Firearm Deaths in North Carolina: 2014-2018*

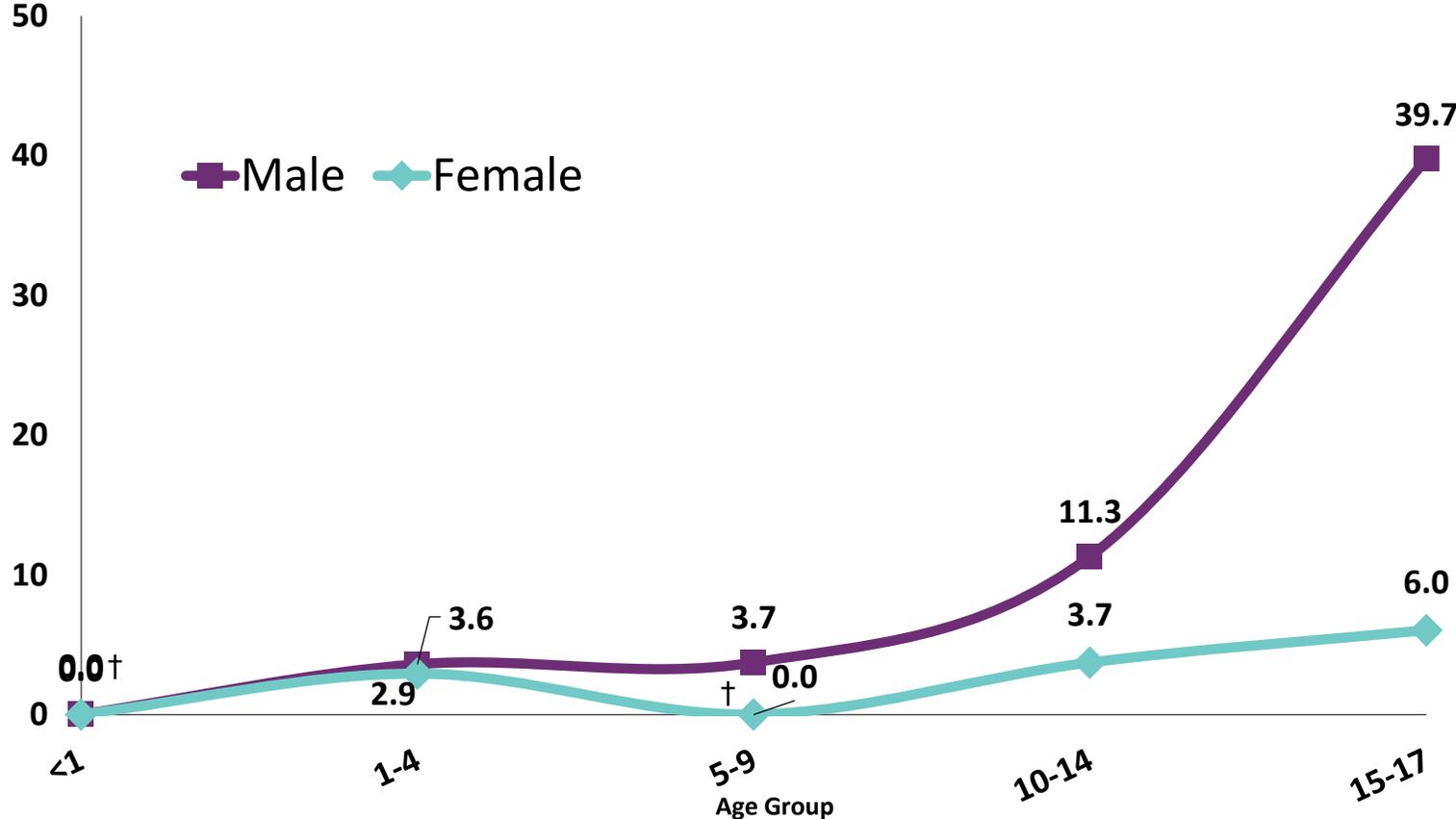
NC all ages= 6,477
NC ages 0-17= 239

Firearm Death Counts/Rates by Race ages 0-17: NC-VDRS, 2014-2018*



***Technical Note:** 239 violent deaths caused by firearms among 0-17: 2014 -2018- using May 2019 datafile
 2018* data are provisional
 Data Source: North Carolina Violent Death Reporting System, 2017 ; Analysis conducted by Injury Epidemiology and Surveillance Unit

Firearm Death Rates by Sex and Age (0-17): NC-VDRS, 2014-2018*



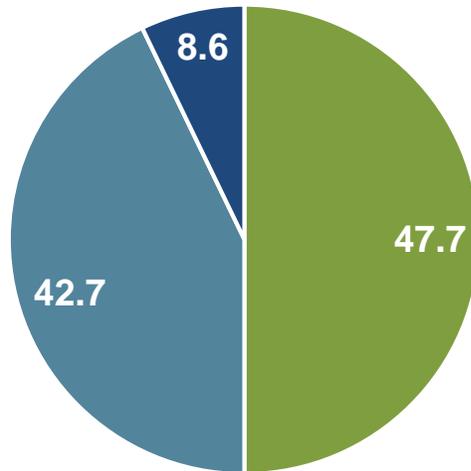
* Rate per 100,000 NC population; † <5 deaths; rate suppressed

***Technical Note:** 239 violent deaths caused by firearms among 0-17: 2014 -2018- using May 2019 datafile
2018* data are provisional
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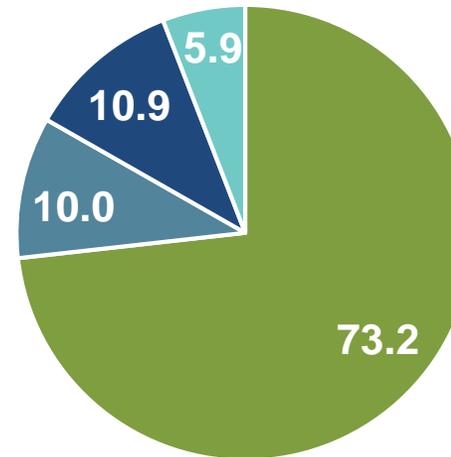
Firearm-Related Deaths by Manner and Firearm Type, ages 0-17: NC-VDRS, 2014-2018*

Manner by Percent



■ Homicide ■ Suicide ■ Unintentional firearm

Firearm Type by Percent



■ Handgun ■ Rifle
■ Shotgun ■ Other/Unknown

Technical Note: 239 violent deaths caused by firearms for ages 0-17: 2014-2018- using Dec 2019 datafile

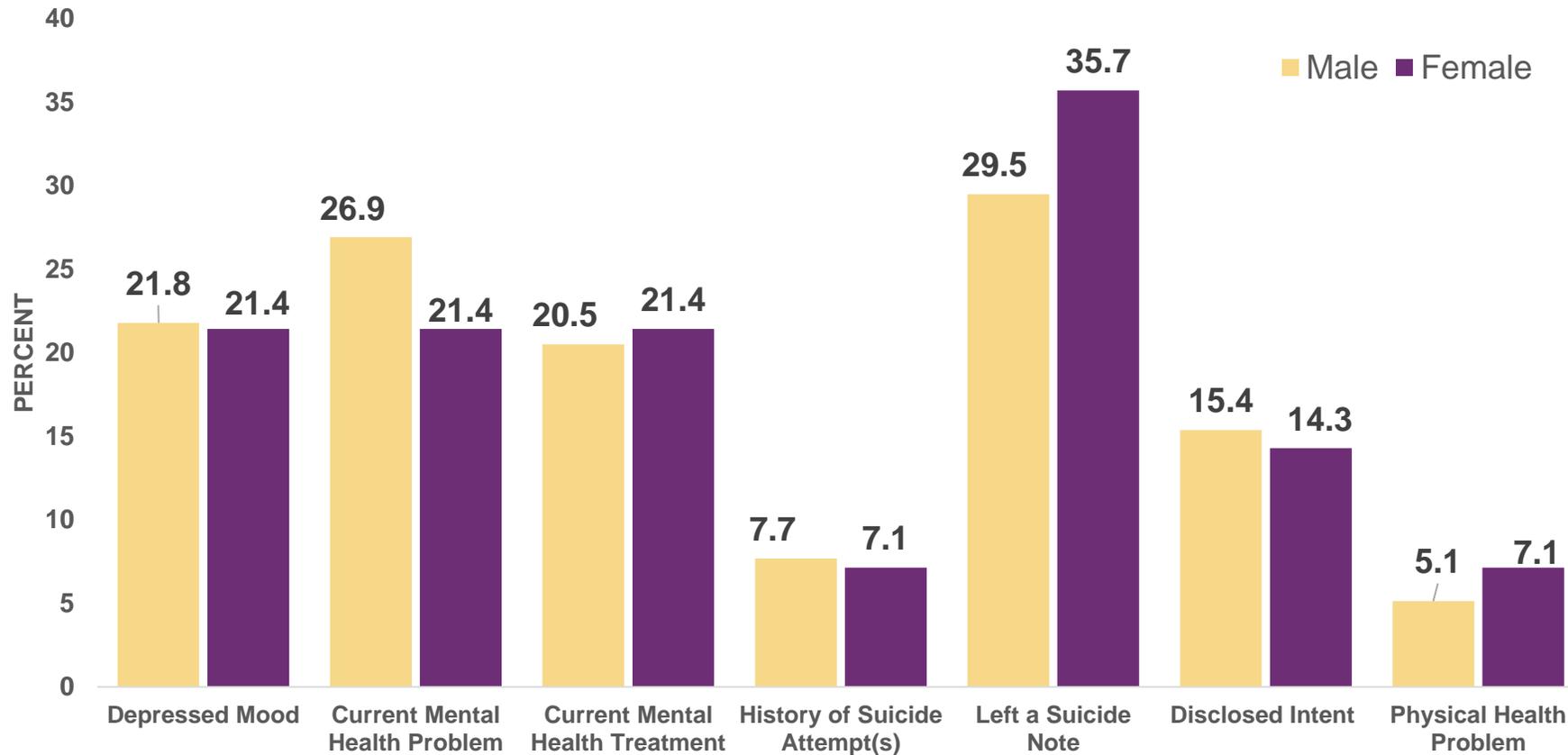
*2018 data are provisional

Data Source: North Carolina Violent Death Reporting System, 2017 ; Analysis conducted by Injury Epidemiology and Surveillance Unit

Circumstances

Firearm-related Suicide Circumstances

Firearm Suicides: Percent of Circumstances: NC-VDRS ages 0-17, 2014-2018*



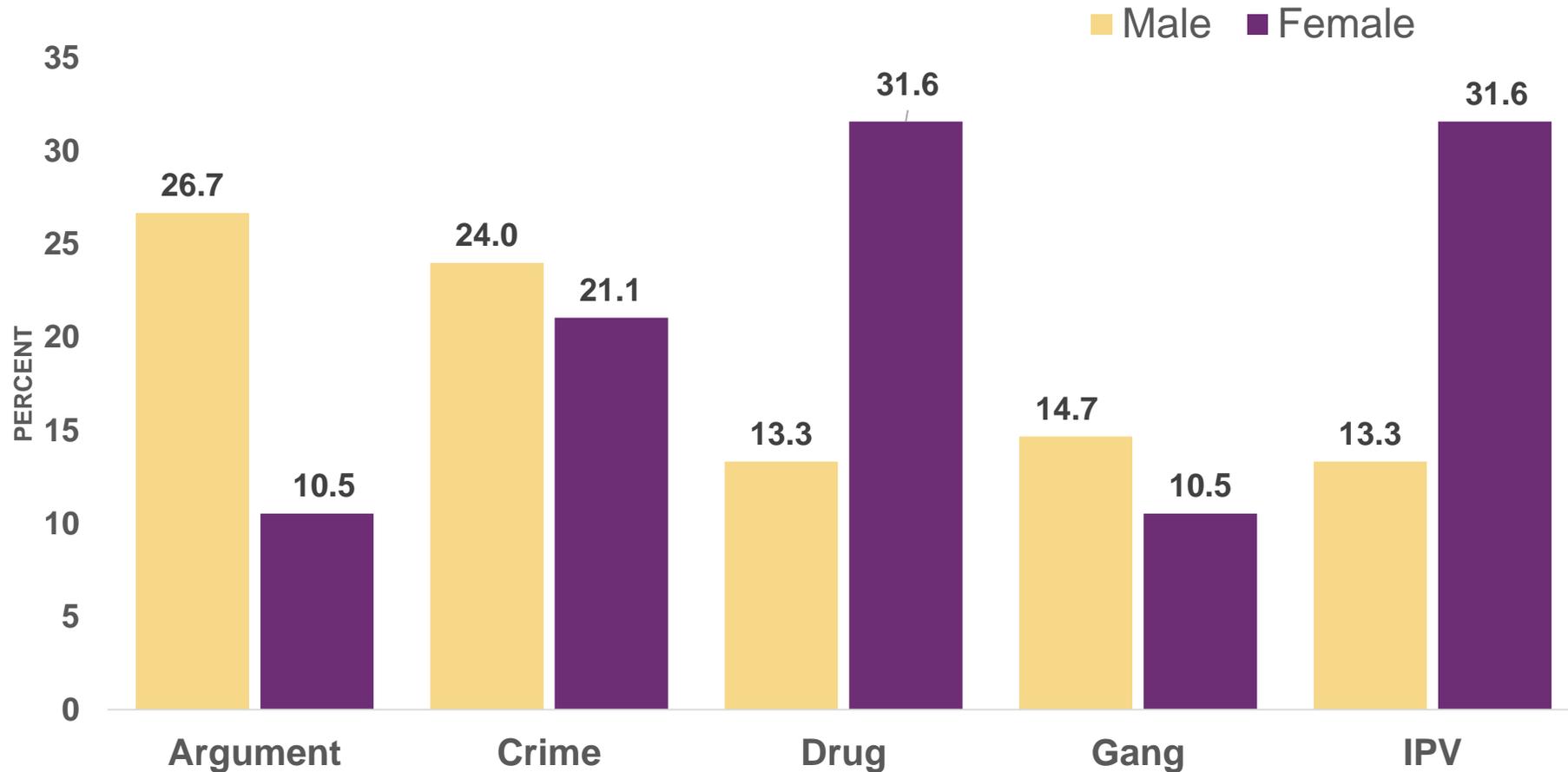
N= 102: total number suicide firearm deaths 0-17

N= 92: At least 1 known circumstance (90.2%)

Analysis by Injury Epidemiology and Surveillance Unit- using Dec 2019 datafile
*2018 data are provisional

Firearm-related Homicide Circumstances

Firearm-related Homicide: Percent of Circumstances for ages 0-17: NC-VDRS, 2016-2017

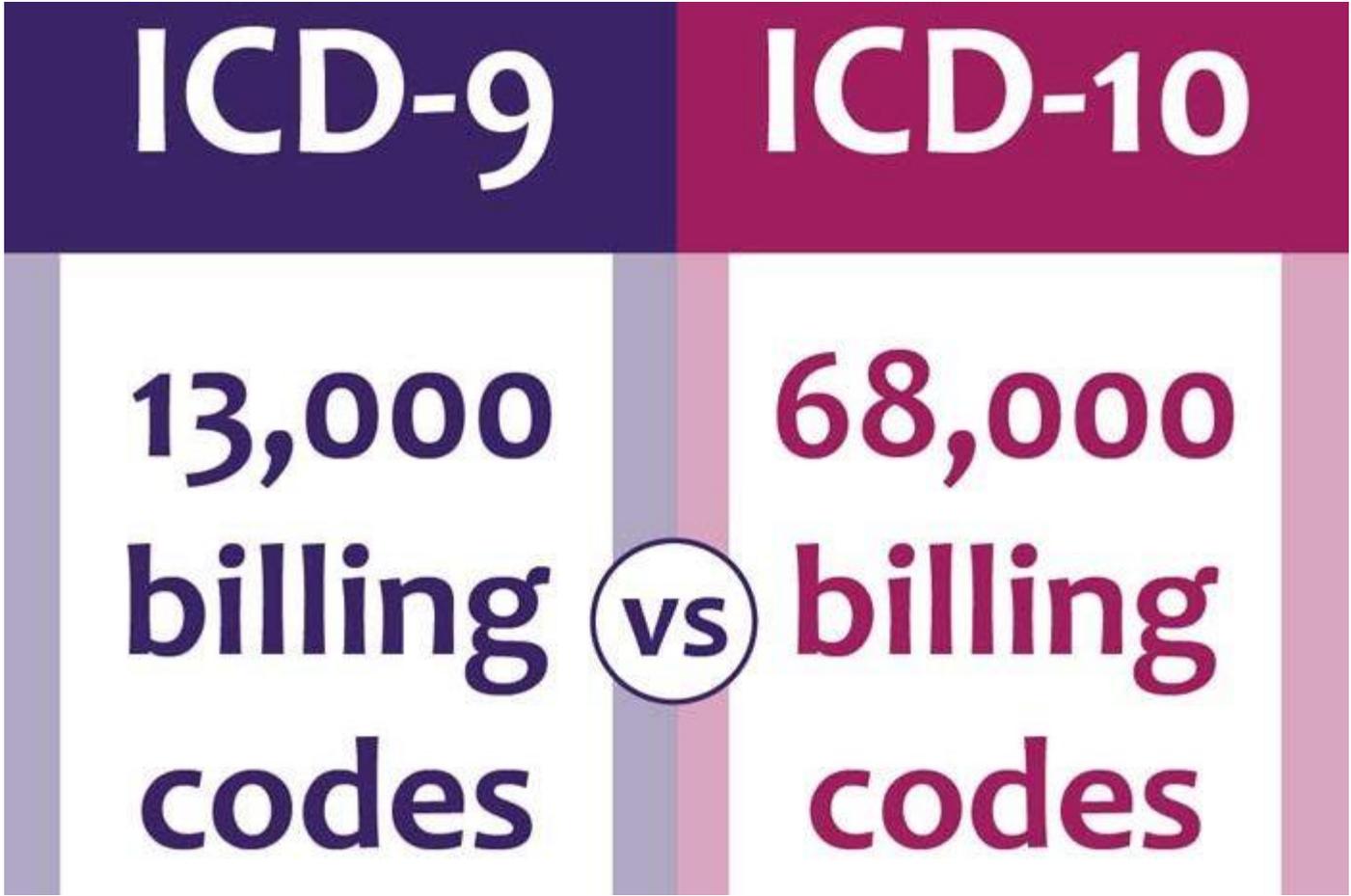


N= 114: total number homicide firearm deaths 0-17

N= 94: At least 1 known circumstance (82.7%)

Analysis by Injury Epidemiology and Surveillance Unit- using Dec 2019 datafile

Firearm-Related ED Visits



vs

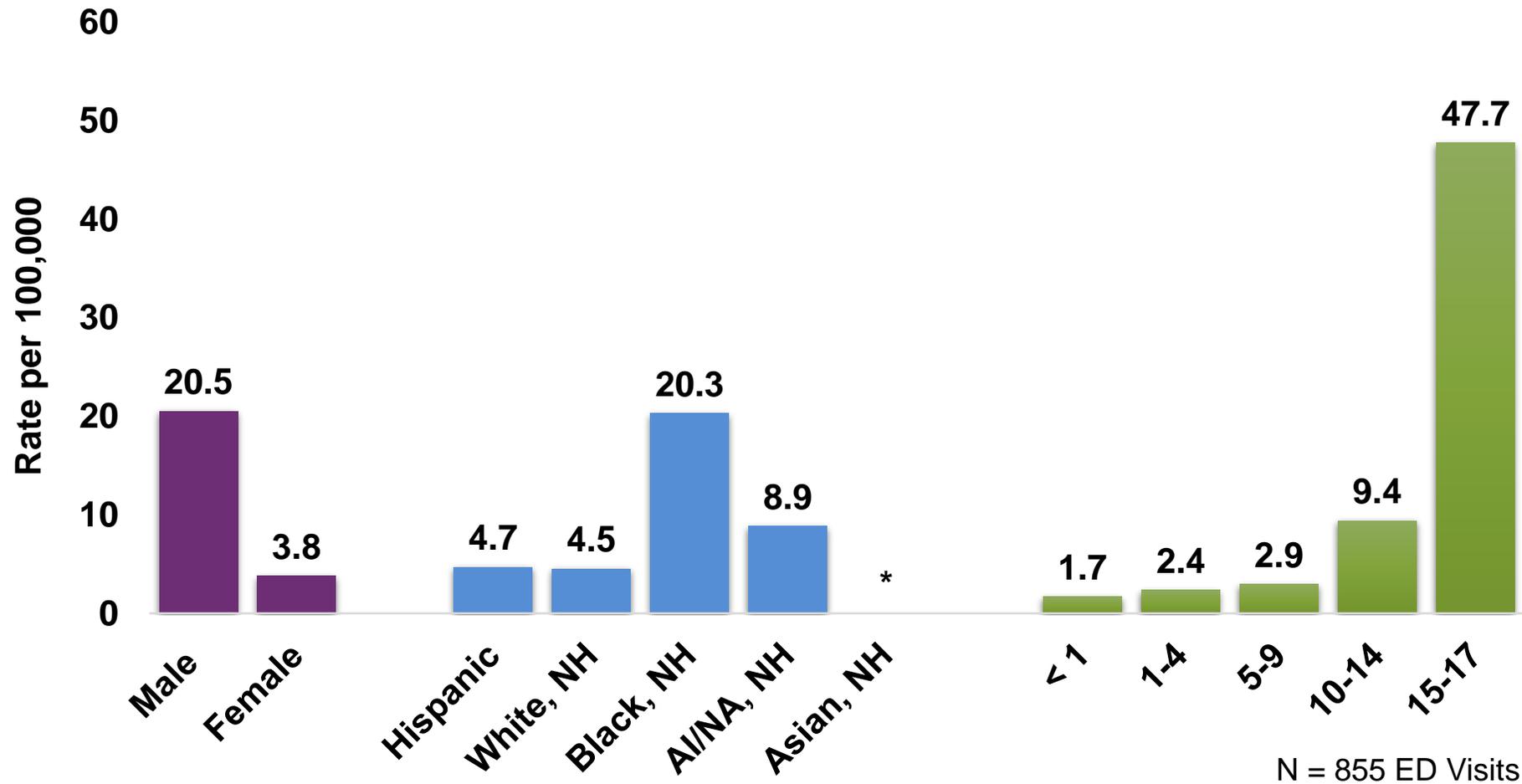
Quick Note: ICD-10-CM Transition

- **The International Classification of Diseases, 10th revision, Clinical Modification replaced ICD-9-CM in 2015**
 - **Affects Hospital Discharge (HD), Emergency Department (ED), and outpatient diagnosis coding**
- **ICD-10-CM captures more detail than ICD-9-CM**
 - **Contains almost 5 times as many codes**
 - **Number of relevant injury codes jumped from 2,600 (ICD-9-CM) to 43,000**
 - **ICD-10-CM data is not comparable to ICD-9-CM data**
- **Case definitions and external cause of injury categories are still being evaluated and are subject to change**
- **Current nonfatal firearm-related injury case definition includes any mention of the following codes:**

W32.0, W33.0, W34.00, W.34.09	Accidental Discharge of Firearm
X72, X73, X74.8, X74.9	Intentional Self-Harm by Firearm
X93, X94, X95.8, X95.9	Assault by Firearm
Y38.4	Terrorism Involving Firearms
Y22, Y23, Y24.8, Y24.9	Firearm Discharge of Undetermined Intent
Y35.0	Legal Intervention Involving Firearm Discharge

*With a 7th character of A or missing (Initial encounter/active treatment)

Firearm-Related ED Visit (0-17) Rates, 2016-2018

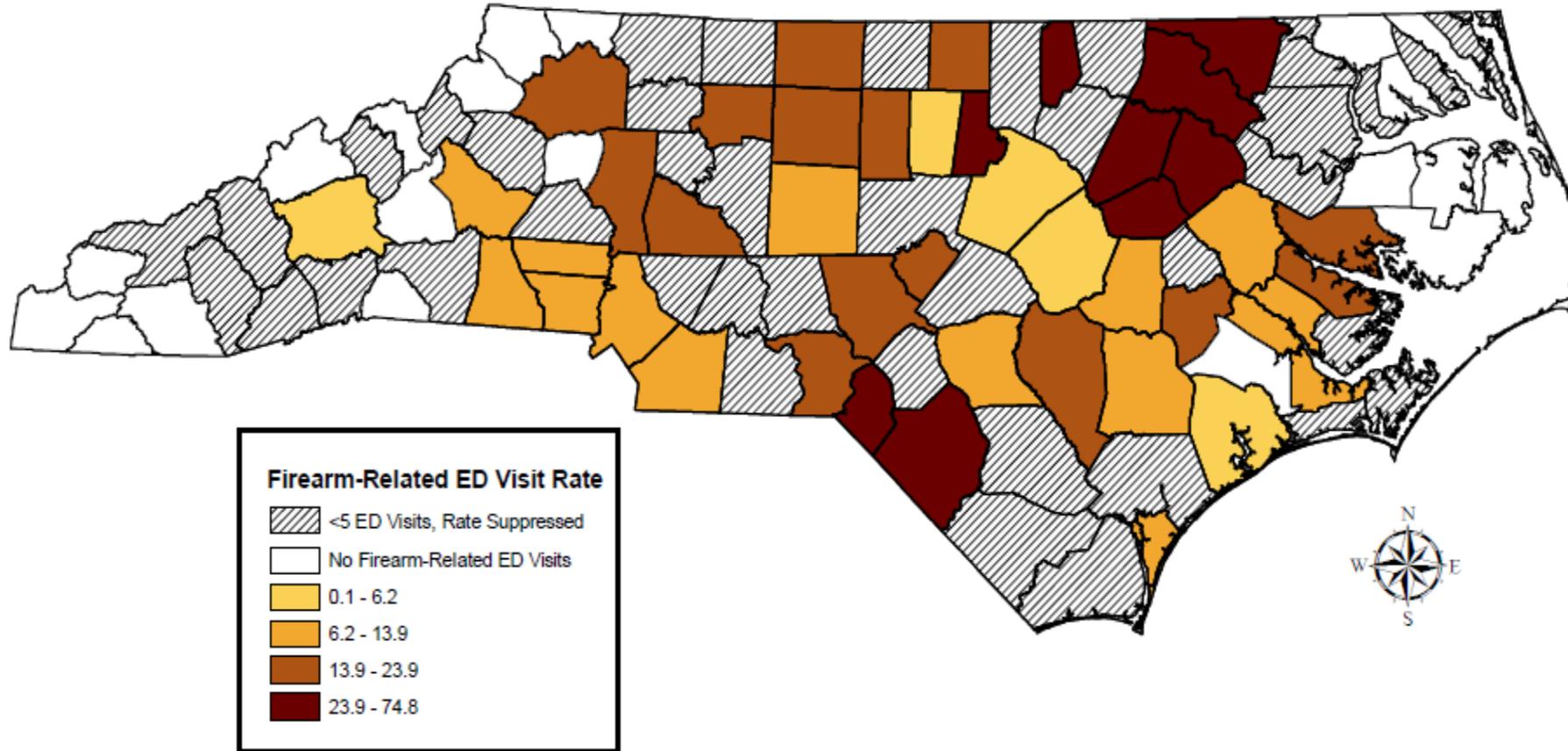


*NC Residents, 2016-2018; NH: Non-Hispanic

Source: NC State Center for Health Statistics, Hospitalization Discharge Data (2016-2018) [Excludes Deaths]

Analysis by Injury Epidemiology and Surveillance Unit

Firearm-Related ED Visits Among NC Residents Ages 17 and Younger, 2016-2018



N = 855 ED Visits

*NC Residents, 2016-2018;

Source: NC State Center for Health Statistics, Hospitalization Discharge Data (2016-2018) [Excludes Deaths]

Analysis by Injury Epidemiology and Surveillance Unit

Firearm-Related Hospitalization (0-17) Charges, 2016-2018

- **\$96,239** average charge

- **\$3,477** minimum charge

- **\$1,479,954** maximum charge

N = 275 Hospitalizations

*NC Residents, 2016-2018

Source: NC State Center for Health Statistics, Hospitalization Discharge Data (2016-2018) [Excludes Deaths]

Analysis by Injury Epidemiology and Surveillance Unit

Prevention

4.6 MILLION CHILDREN

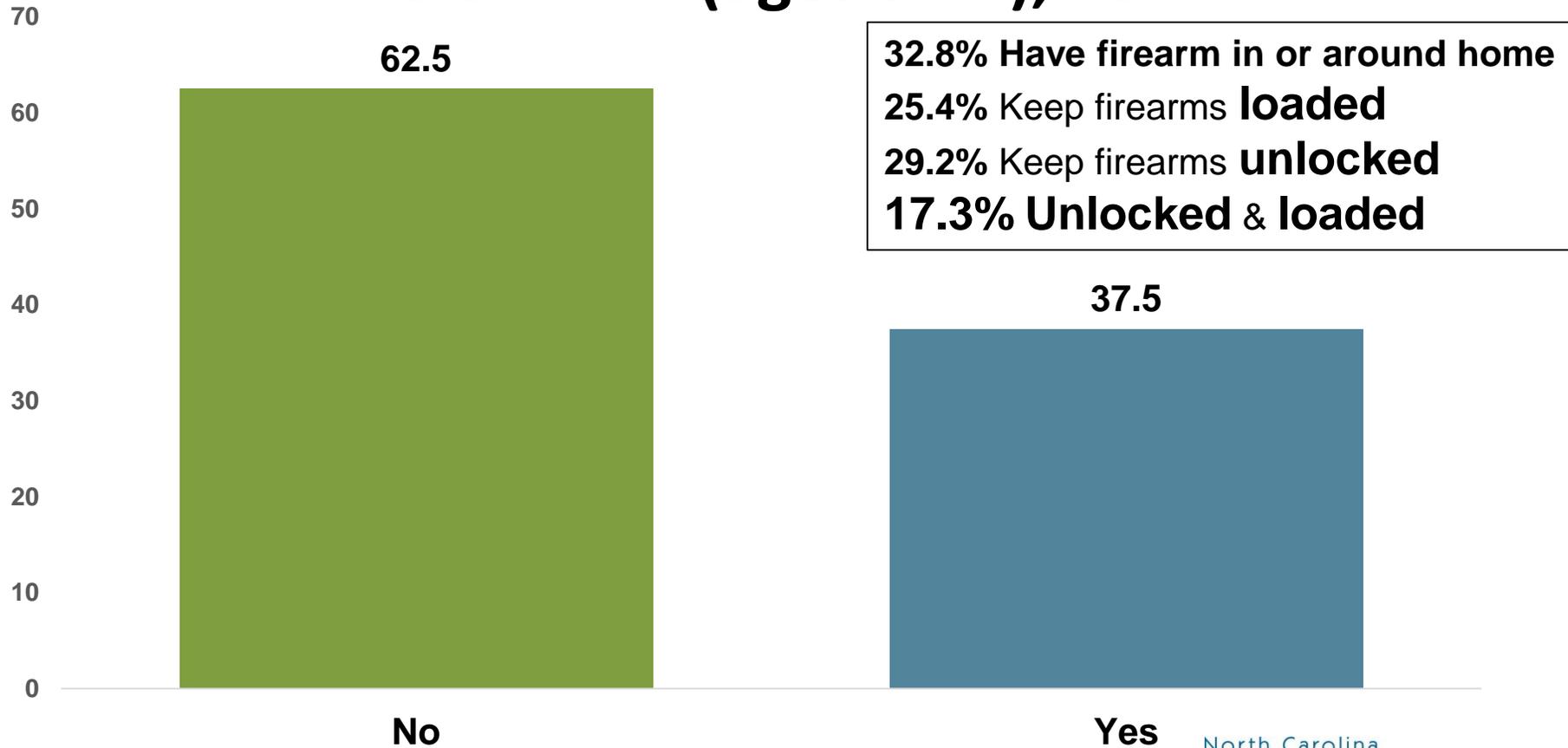


**LIVE IN HOMES WHERE
GUNS ARE UNLOCKED
AND LOADED**



**1,500 CHILDREN
ARE KILLED WITH GUNS
EVERY YEAR**

Percent of NC Parents Firearm Practices (Do you use a gun or chamber lock?) NC CHAMP (ages 0-17), 2011



Data Source: NC Child Health Assessment and Monitoring Program (NC CHAMP), 2011
Analysis by Injury Epidemiology and Surveillance Unit



NC DEPARTMENT OF
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